



AAAAGAGGATAATTCAAGAAGGGCTTCTTTAAGGGACTATTTCCCAAGATGGGAATGGAGGGGAACCT  
GCAGGGCTAGTGTCTACCTCCAGCAGGCAGCAGCTAATTCCTGAGGGGATAAGGACGTGGTTGCGA  
GGACATGGAGGGAAAGTTCTACAGAGGAGGCACAGTGGGCTTCAGGAACACCCTGCTTGAGAGGCCTG  
TGAGAGGTGGGGAATCAATACCTGACCTCGCTCTCCTTCCATCTCTCCCCAACCCACAGGGGTTGGTG  
TGGGCCCCACAGGCGAGCCTCCCGGGGAGAGAAGTGGAGAGAGGACCTGGAGGGCCAGTAGAAGGTAT  
GCACACAAGTATCTACAAGGCACCAGGCATTTTTTGAGCATTTGGGATTTGTCAGCAAAACAAGTCAGA  
CAAAAAACCTTGCTCTGGTGGAGGGAACATTCTAGCAAAGGAAGGCAAATGACAAGCAGGAGAAGTAT  
TTGCTAAGAAATGGCAATCCTGACGCTCAGCCTTCAACTCATCTTGTTATTAATACCATCAATATCCCA  
TGAGGGCTCATAAAACGAGTCTTTCTTCTTGGAACATGACCAAGATTGGGCAAACGTCTCCAACATGA  
CTTTCAGCAACGGAAAACCTAAGAGTCAAAGGCATTTATTACCGGAATGCCGACATTTGCTCTCGACAT  
CGCGTAACCTCAGCAGGCCTAACTCTGCAGGACCTTCAGCTATGGTGTAATTTGAGAATCATTCACTG  
AGCATCAACTATGTAACCAGCATTTGGGTGGGTGCCAGAGATCCAAAGCTAAGACACCAAACCTGCT  
CTCCAGGAAACGAGAGGCTGAGAAGAGGGCCAGCAGGTGTCTGTGCTAGTACTTGGAGCCGTGAGAGCAG  
GGAGTGGGTGCTGGGCTGAGGAACCAGAGGTAATGGCCCTGGGGACGCCCGGAAGAGATGAGTTTTG  
AGGCAAAGGGATTTGCATTTGTGGATGAACCTGTGTGTTTCAGCTGAAGGCTGAAGTTGTAACCTCTGAA  
CCACAGGACAAAGCATGATGTGATGTCTTCCTCACTAAATGGCAATGTCCTTGAGAAGACCCTGTCTT  
AATCATCTCTGTGTCTCACGCCTGGCTCATAACATATGCTTATCGCATGCTTTTAATAAAAGGAGGAA  
AATGC

**FIG.\_1A**

AAAAAATACAGCAGGTGAAGGAGGTTGGAGAGTAGGGGGTGGAGGGCCACGCAGCACTTGTCTTCA  
CCCTGGAGGGGATCTGTTACATGCCCCAGATTGCTGGTCCCCTAGAAATGTTACTGAGGCAGCCTCTG  
CATTTTTGCAGGGATTGTTTTCTACTGTTTGACATTCACGTAACCTCCTAACGCTGTCTGGGGAAGAT  
GCTACCCCTGCTCTCCCCGTCTTTCTGCACTCTCAGCAATGGGATGGGCTGACTGATGCCCTGTGG  
GCTGGAAAGCTGACCACAGTTGCTGCAGACCAGACCCCTCACATAGTGAGTGCTGGGCTGAGGAATC  
CAGGAGAGCCCGAGGGGGGACACTGAAGGTGTATCGTTGGCCCTGCCAGCTGCAAGTGAAGTCTCT  
GATGAATTTTAATAGGGAGAAAGAAGTATTTGCTAAGAAATGGCAATCCTGACGCTCAGCCTTCAACTC  
ATCTTGTTATTAATACCATCAATATCCCATGAGGCTCATAAAACGAGTCTTTCTTCTTGAAACATGA  
CCAAGATTGGGCAAACGTCTCCAACATGACTTTCAGCAACGGAAAACCTAAGAGTCAAAGGCATTTATT  
ACCGGAATGCCGACATTTGCTCTCGACATCGCGTAACCTCAGCAGGCCTAACTCTGCAGGACCTTCAG  
CTATGGTGTAATTTGAGGTCAGTGGCCAGAGGACAGATCCCGTCTACATTATGAGTGAAGCGGAGAGC  
TACTGCAGGGTTCTGAGCAGAGTCTTAATTTATATTTTAGAAGAATCATCATGGCTCCTAGATTAGGA  
ATAAAACGAAGGGGGCCAGGGATGGAACGATGAGTCCAGTTGGGTACTGCAAAGATCCAGGCCAGA  
AATCCAGGCACAGTGGCACACACCTGAGTCCCAGATAATTCCACCTACTGGTCCTGCTCTGTGGCCTA  
CTGGTCCGAGTCCAGCCCCGACTGATTTCTGGGCCCTGTAATGTCTAAAAACGCTCCCTGCTGATGTTT  
TGCAAGTGACTGTGTTACTTGAAGGCAGTTCTAGGATAAACTAGTCGCTTTATCATTACAGAATCAT  
TCACTGAGCATCAACTATGTAACCAGCATTGGGTGGGTGCCAGAGATCCAAAGCTAAGACACCAAAA  
CCTGCTCTCCAGGAAACGAGAGGCTGAGAA

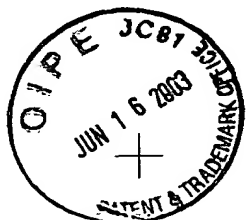
**FIG.\_1C**



GGTGGAGCCAAATAAGGGAATGAAAGCAGGCCACCGGAGCCTCGGAGAGGCAACCGTTTGGGGTACTC  
TTCCACACTGTGGCAGCTTTGTTCTTTTGCTCTTTGCAGTAAGTTTTGCTGTTGCTTACTCTTTGGGT  
CTGCACTGCCTTTATGAACTGTAACACTGACCATGGAGGTCTGCAGCTTCACTCCTCAAGCCAGCAAG  
ACCAGGAGCCCACTGGGAGGAGGAATGAACAACCTCTGGACACGCCACCCTTAAGAGCTGTAACACTCA  
CCGCGACGGTCTGCAGCTTCACTCCTGAAGTCAGCGAGACCACAAACCCACCAGAAGGAAGAAAATCC  
GGACACATCTGAACATCTGAGGGAACCTCCGCACACACCATCTTTAAGAACTGTAACACTCACCACGAG  
GGCCCGTGGCTTCATTCTTGAAGTCAGCAAGACCAAGAACCCACCAATTCTGGACACAACAGGACACA  
CACATGGGAGGGGGAGGCCAGAGGGAAACCTAGCTGGCTTGGGGTGGGAATTTGAATCCCTGAGCCCA  
TCTTCTTCTTTACCACTTTGTCCGGTGACATTAGGACCAACCAACCAATGCCATTATATTTCTTAGT  
TTACAAGAAAATGTTTGAAGTTCTCATCCACAGAATCACTTAGCTTCTTGCTTTTTACAAGTGGTTGA  
TTAGGAGTATTCAATACAGATTTTGTGTATCACTATAAACAGTTCACAGCATGGACTACTGGTGTCT  
CTTTACTAACTGAAATGGTGTCAATTAGCACCTTTAAATCTAATCCATTTAGAGAGCCAGTTCGGGAAA  
CCTCAGAACCAGTTTGGAAAACCTCCGTTCTTCTGAAGCCATTTTGGAAACCACATCTGTGCTAGGTT  
CTCCAGGGAAACAGAACCAATATGTTTTATTTACTATGGGGACTGGCTCATATGATTCTGGAGGCCTA  
GAAGTCCCTCCCTCTCAAGATGTGCTGTGAGCAAGCTGCAGAACCAGGAAAGCTGGTGGTGTGAGAGT  
CTGAAGGCCTGAGAACTGGGTGGGGAGTGGGACAGACTAAGGGGCCCTTAGTCTCTGGGTGGTGTGG  
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TTGACCACTGTATCAACCAGGATTGTGACACAAAAACAGATGGCACACTCAAAGAGGATAATTCAAG  
AAGGGCTTCTTTAAGGACTATTTCCCAAGATGGGAATGGAGGGGAACCTGCAGGGCTAGTGTCTTAC  
CCTCCAGCAGGCAGCAGCTAATTCCTGAGGGGATAAGGACGTGGTTGCGAGGACATGGAGGGAAAGTT  
CTACAGAGGAGGCACAGTGGGCTTCAGGAACACCCTGCTTGAGAGGCCTGTGAGAGGGATTGTTTTCT  
ACTGTTTGACATTACGTAACCTCCTAACGCTGTCTGGGGAAGATGCTACCCCTGCTCTCCCGTCT  
TTCTGCACTCTCAGCAATGGGATGGGCTGACTGATGCCCTGTGGGCTGGAAAGCTGACCACAGTTGC  
TGCAGACCAGACCCCTCACATAGTGAGTGCTGGGCTGAGGAATCCAGGAGAGCCCGAGGGGGGACAC  
TGAAGGTGTATCGTTGGCCCTGCCAGCTGCAAGTGAAGTCTTCTGATGAATTTAATAGGGAGAAAG  
AAGTATTTGCTAAGAAATGGCAATCCTGATGCTCAGCCTTCAACTCATCTTGTTATTAATACCATCAAT  
ATCCCATGAGGCTCATAAAACGAGTCTTTCTTCTTGGAAACATGACCAAGATTGGGCAAACGTCTCCA  
ACATGACTTTTCAGCAACGGAAAACCTAAGAGTCAAAGGCATTTATTACCGGAATGCCGACATTTGCTCT  
CGACATCGCGTAACCTCAGCAGGCCTAACTCTGCAGGACCTTCAGCTATGGTGTAATTTGAGGTGAGT  
GGCCAGAGGACAGATCCCGTCTACATTATGAGTGAAGCGGAGAGCTACTGCAGGGTTCTGAGCAGAGT  
CCTAATTTATATTTTAGAAGAATCATCATGGCTCCTAGATTAGGAATAAAACGAAGGGGCCAGGGAT  
GGAAACGATGAGTCCAGTTGGGTACTGCAAAGATCCAGGCCAGAAATCCAGGCACAGTGGCACACAC  
CTGAGTCCAGATAATTCACCTACTGGTCTGTGCTGTGGCCTACTGGTCCGAGTCCAGCCCCGACT  
GATTTCTGGGCCTGTAATGTCTAAAACGCTCCCTGCTGATGTTTTGCAAGTGAAGTGTGTTACTTGAA  
GGCAGTTCCTAGGATAAACTAGTCGCTTTATC

**FIG. 1B**

+



MAILTSLQLILLIPSISHEAHKTSLSWKHDQDWANVSNMTFSNGKLRVKGIYYRNAD  
ICSRHRVTSAGLTLQDLQLWCNLRIIH

Domain Information

Signal peptide:

1-19

N-glycosylation site.

38-42

41-45

**FIG.\_2A**

MAILMLSLQLILLIPSISHEAHKTSLSWKHDQDWANVSNMTFSNGKLRVKGIYYRNAD  
ICSRHRVTSAGLTLQDLQLWCNLRSVARGQIPST

Domain Information

Signal peptide:

1-19

N-glycosylation site.

38-42

41-45

N-myristoylation site.

89-95

**FIG.\_2B**

MAILTSLQLILLIPSISHEAHKTSLSWKHDQDWANVSNMTFSNGKLRVKGIYYRNAD  
ICSRHRVTSAGLTLQDLQLWCNLRSVARGQIPSTL

Domain Information

Signal peptide:

1-19

N-glycosylation sites

38-42

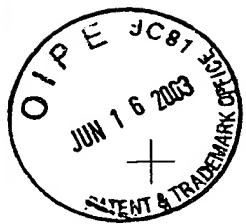
41-45

N-myristoylation sites

89-95

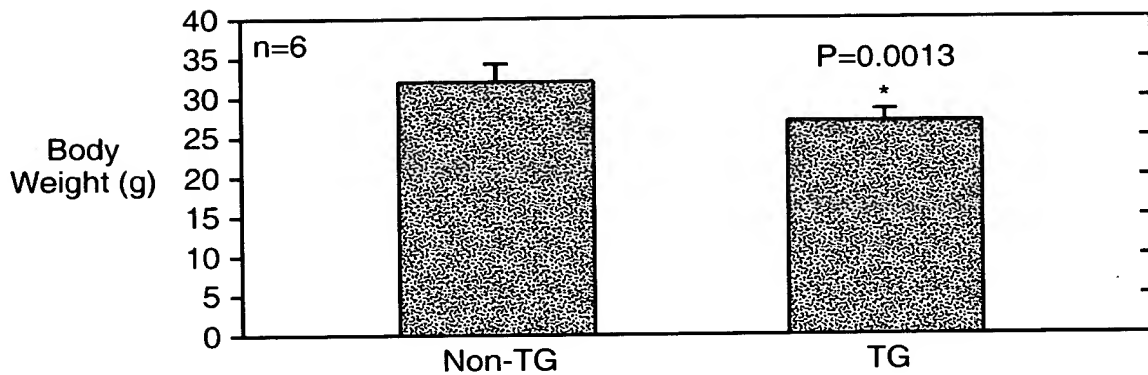
**FIG.\_2C**



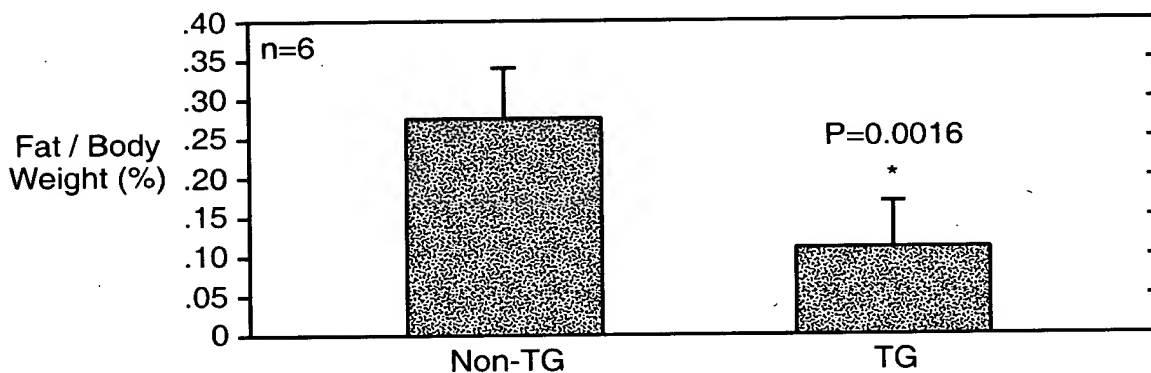


P2871R1

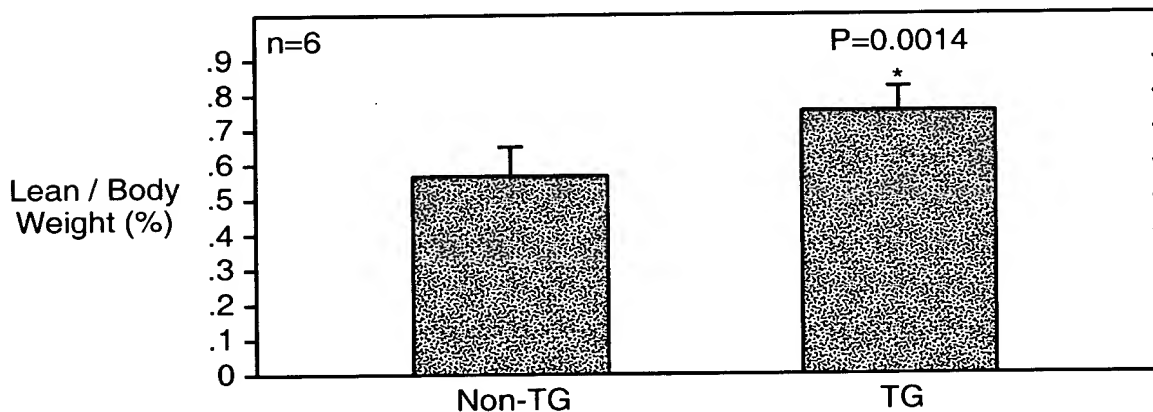
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**FIG.\_3A**



**FIG.\_3B**



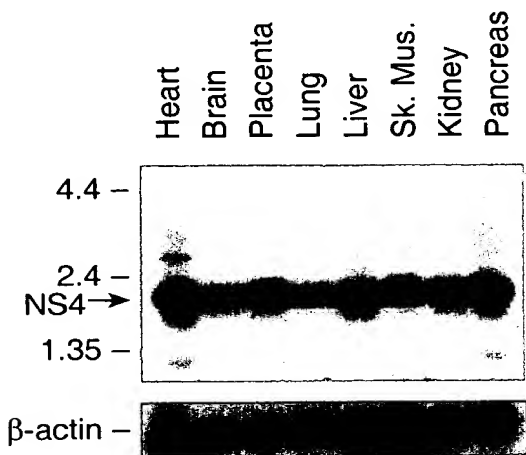
**FIG.\_3C**

DNA146649	1	MAILTSLQLILLIPSISHEAHKTSLSWKHDQDWANVSNMTF SNGKLR
DNA149986	1	MAILMLSLQLILLIPSISHEAHKTSLSWKHDQDWANVSNMTF SNGKLR
DNA149995	1	MAILTSLQLILLIPSISHEAHKTSLSWKHDQDWANVSNMTF SNGKLR

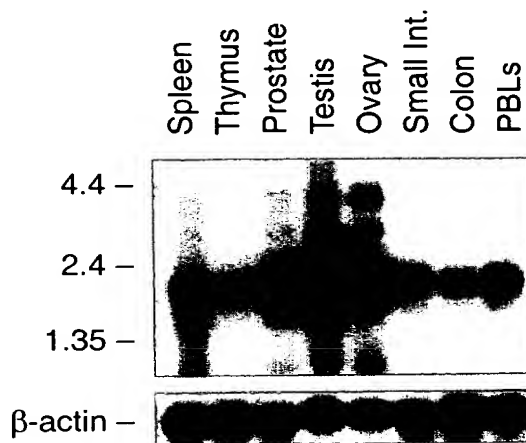
DNA146649	51	VKGIYYRNADICSRHRVTSAGLTLQDLQLWCNLR I I H-----
DNA149986	51	VKGIYYRNADICSRHRVTSAGLTLQDLQLWCNLR SVARGQIPSTL
DNA149995	51	VKGIYYRNADICSRHRVTSAGLTLQDLQLWCNLR SVARGQIPSTL

**FIG.\_4**

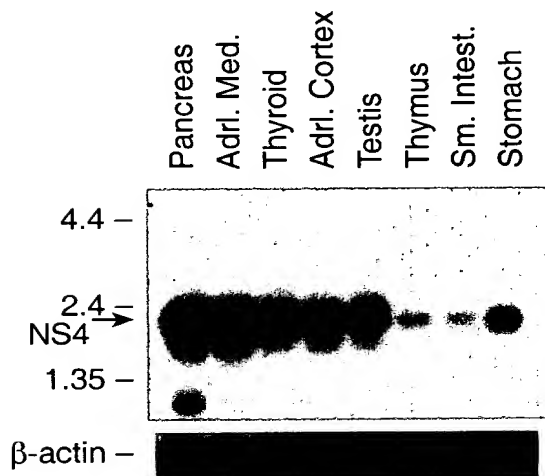




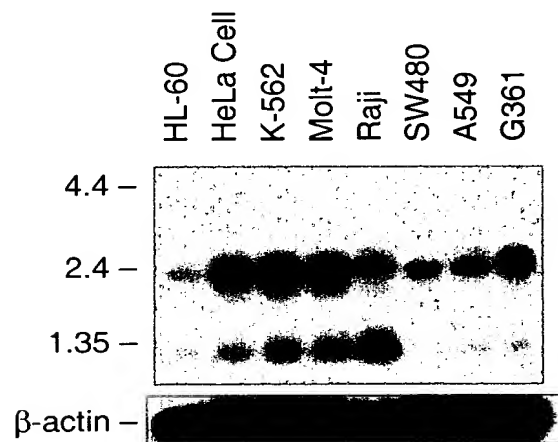
**FIG.\_5A**



**FIG.\_5B**



**FIG.\_5C**



**FIG.\_5D**